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Patent

Case No.: 58046US013

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor: FUNKENBUSCH, ARNOLD W.

Application No.: 10/521826 Group Art Unit: Unknown

Filed: August 15, 2003 Examiner: Unknown

Title: DURABLE EMI SHIELDING FILM

INFORMATION DISCLOSURE STATEMENT

Mail Stop: Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**CERTIFICATE OF MAILING OR TRANSMISSION [37 CFR § 1.8(a)]**

I hereby certify that this correspondence is being:

- deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.
- transmitted by facsimile on the date shown below to the United States Patent and Trademark Office at (703) 872-9306

May 4, 2005  
Date

Signed by: Pamela L. Stewart

Dear Sir:

Pursuant to 37 CFR §§ 1.56, 1.97, and 1.98, enclosed is a completed Form PTO-1449, citing references submitted for consideration by the Examiner. It is respectfully requested that the Examiner initial and return the enclosed Form PTO-1449 to indicate that each reference has been considered.

Copies of any cited foreign patents, foreign publications, non-patent literature documents, and any pending U.S. applications filed before June 30, 2003, are enclosed. Copies of any pending U.S. applications filed after June 30, 2003 that can be accessed on the USPTO's IFW system are not enclosed as per USPTO Waiver dated September 21, 2004. Copies of any U.S. patents and published U.S. patent applications are not enclosed.

It is believed that no fee is due; however, in the event a fee is required, please charge the fee to Deposit Account No. 13-3723.

May 4, 2005

Date

Respectfully submitted,

By:

Pamela L. Stewart, Reg. No.: 45,707  
Telephone No.: (651) 733-2059

Office of Intellectual Property Counsel  
3M Innovative Properties Company  
Facsimile No.: 651-736-3833

Substitute for form 1449A/PTO (modified)

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## U.S. Patent Documents

Exam. Init.*	Cite No.	Document Number <small>Doc. Number-(Kind Code if Known)</small>	Publication Date or Issue Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A1	US- 3,302,002	01-31-1967	Warren	
	A2	US- 3,311,517	03-28-1967	Keslar et al.	
	A3	US- 3,529,074	09-15-1970	Lewis	
	A4	US- 3,601,471	08-24-1971	Seddon et al.	
	A5	US- 3,682,528	08-08-1972	Apfel et al.	
	A6	US- 3,752,348	08-14-1973	Dickason et al.	
	A7	US- 3,897,140	07-29-1975	Tuthill	
	A8	US- 3,990,784	11-09-1976	Gelber	
	A9	US- 4,017,661	04-12-1977	Gillary	
	A10	US- 4,166,876	09-04-1979	Chiba et al.	
	A11	US- 4,226,910	10-07-1980	Dahlen et al.	
	A12	US- 4,234,654	11-18-1980	Yatabe et al.	
	A13	US- 4,320,169	03-16-1982	Yatabe et al.	
	A14	US- 4,413,877	11-08-1983	Suzuki et al.	
	A15	US- 4,590,118	05-20-1986	Yatabe et al.	
	A16	US- 4,639,069	01-27-1987	Yatabe et al.	
	A17	US- 4,645,714	02-24-1987	Roche et al.	
	A18	US- 4,696,719	09-29-1987	Bischoff	
	A19	US- 4,722,515	02-02-1988	Ham	
	A20	US- 4,782,216	11-01-1988	Woodard	
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	A23	US- 4,842,893	06-27-1989	Yializis et al.	
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	A25	US- 4,910,090	03-20-1990	Kuhlman et al.	
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	A27	US- 4,965,408	10-23-1990	Chapman et al.	
	A28	US- 4,973,511	11-27-1990	Farmer et al.	

\*Examiner:

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		Doc. Number-(Kind Code if Known)			
A29	US- 5,011,585		04-30-1991	Brochot et al.	
A30	US- 5,018,048		05-21-1991	Shaw et al.	
A31	US- 5,032,461		07-16-1991	Shaw et al.	
A32	US- 5,071,206		12-10-1991	Hood et al.	
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A36	US- 5,260,095		11-09-1993	Affinito	
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A47	US- 5,699,188		12-16-1997	Gilbert et al.	
A48	US- 5,725,909		03-10-1998	Shaw et al.	
A49	US- 5,744,227		04-28-1998	Bright et al.	
A50	US- 5,757,126		05-26-1998	Harvey, III et al.	
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A56	US- 6,007,901		12-28-1999	Maschwitz et al.	

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		Doc. Number-(Kind Code if Known)			
A57	US- 6,030,671		02-29-2000	Yang et al.	
A58	US- 6,045,864		04-04-2000	Lyons et al.	
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## Foreign Patent Documents

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		Ctry. Code	Number-KindCode (If known)				
	B1	EP	0 810 452 A2	12-03-1997	Okamura et al.		
	B2	EP	0 873 839 A1	10-28-1998	Ono et al.		
	B3	EP	0 944 299 A2, A3	09-22-1999	Sugizaki et al.		

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		Ctry. Code	Number-KindCode (If known)				
	B4	EP	0 977 167 A1	02-02-2000	Yasunori et al.		
	B5	WO	95/10117	04-13-1995	Shaw et al.		
	B6	WO	97/01440	01-16-1997	Gilbert et al.		
	B7	WO	97/01778	01-16-1997	Onderkirk et al.		
	B8	WO	97/04885	02-13-1997	Affinito et al.		
	B9	WO	98/26927	06-25-1998	Landin et al.		
	B10	WO	99/36248	07-22-1999	Neavin et al.		
	B11	WO	99/36262	07-22-1999	Hebrink et al.		
	B12	WO	00/26973	05-11-2000	Bright		
	B13	WO	00/48749	08-24-2000	Eufinger et al.		
	B14	WO	01/31393 A1	05-03-2001	Epstein et al.		
	B15	WO	01/58989 A1	08-16-2001	McGurran et al.		
	B16	WO	01/96104 A2	12-20-2001	Liu et al.		
	B17	WO	01/96115 A1	12-20-2001	Dietz		

## OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Exam. Init.*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
	C1	Presentation: Affinito et al., "Polymer-Oxide Transparent Barrier Layers," SVC 39 <sup>th</sup> Annual Technical Conference, Paper No. W-12, (1996), pp. 1-6.
	C2	Presentation: Shaw et al., "A New Vapor Deposition Process for Coating Paper and Polymer Webs," Sixth International Vacuum Web Coating Conference, Reno, NV, October 28, 1992, pp. 18-24.
	C3	Presentation: Shaw et al., "A New High Speed Process for Vapor Depositing Acrylate Thin Films: An Update," Society of Vacuum Coaters 36 <sup>th</sup> Annual Technical Conference (1993), pp. 348-352.
	C4	Presentation: Shaw et al., "Use of Vapor Deposited Acrylate Coatings to Improve the Barrier Properties of Metallized Film," Society of Vacuum Coaters 37 <sup>th</sup> Annual Technical Conference (1994), pp. 240-247.
	C5	Presentation: Shaw et al., "Use of Evaporated Acrylate Coatings to Smooth the Surface of Polyester and Polypropylene Film Substrates," Rad Tech (1996), (12 pages).

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*	C6	Article: Affinito et al., "Vacuum Deposited Polymer/Metal Multilayer Films for Optical Application," <u>Thin Solid Films</u> , Vol. 270, (1995), pp. 43-48.
	C7	Product Information: "Southwall™ Altair™ M Transparent Conductive Film," (date unknown but is prior to filing date of instant application), 1 page.
	C8	Product Information: "Shielded Windows," Advanced Performance Materials, (date unknown but is prior to filing date of instant application), 1 page.
	C9	Product Information: "EMI Shielding Products," Advanced Performance Materials, (date unknown but is prior to filing date of instant application), 2 pages.
	C10	Technological Information: "EMI Theory," Chomerics, (date unknown but is prior to filing date of instant application), pp. 1-3.
	C11	Technological Information: "Shielding Methods," Chomerics, (date unknown but is prior to filing date of instant application), pp. 1-7.
	C12	Product Information: "Display Products," Southwall Technologies, (date unknown but is prior to filing date of instant application), pp. 1-2.
	C13	Product Information: "BE 9 Shielded Windows," Advanced Performance Materials GMBH, (date unknown but is prior to filing date of instant application), pp. 60-67.
	C14	Book Excerpt: Austin, "Chapter 8: Electromagnetic Compatibility for Electrical Engineering," <u>Electrical Engineer's Reference Book</u> , Butterworth-Heinemann, Oxford, UK, Fifteenth Edition, (1993), pp. 8/3-8/14.
	C15	Book: White and Mardigian, "Volume 3: Electromagnetic Shielding," <u>A Handbook Series on Electromagnetic Interference and Compatibility</u> , Interference Control Technologies, Inc., Gainesville, Virginia, (1988), title page and table of contents, 12 pages.
	C16	Book: Gnecco, <u>The Design of Shielded Enclosures: Cost-Effective Methods to Prevent EMI</u> , Butterworth-Heinemann, Boston, MA, (2000), title page, table of contents, List of Illustrations, and List of Tables, 13 pages.
	C17	Book: White and Mardigian, "Volume 8: EMI Control Methodology and Procedures," <u>A Handbook Series on Electromagnetic Interference and Compatibility</u> , Interference Control Technologies, Inc., Gainesville, Virginia, (1989), title page and table of contents, 11 pages.
	C18	Article: Cairns et al., "Strain-Dependent Electrical Resistance of Tin-Doped Indium Oxide on Polymer Substrates," <u>Applied Physics Letters</u> , Vol. 76, No. 11, March 13, 2000, pp. 1425-1427.

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	C19	H.G. Elias, "An Introduction to Plastics", VCH Verlagsgesellschaft mbH (Weinheim, Germany), 1993 (no month), page 249.

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